

Camtorc Hydraulic and Pneumatic Linear Actuator Systems

The Camtorc range of linear actuators provide highly reliable, pneumatic or hydraulic actuation for linear valves (gate, globe and knife gate). Linear piston operated actuators are available for pneumatic (Type LP) and hydraulic (Type LH) applications in either double acting or spring return configurations with a full range of control accessories. Piston actuators allow for a high thrust to weight ratio because they can operate at higher supply pressures and the all steel construction can withstand severe-service environmental conditions.



Actuator Design Criteria

Stroke

25mm to 1200mm with adjustable travel stops.

Thrust Range

Pneumatic actuators - 2 kN to 1000 kN.

Hydraulic actuators - 10 kN to 2500 kN.

Supply Pressure

Pneumatic Actuators: Maximum 10.5 barg.

Hydraulic Actuators: Maximum 210 barg. Static test pressure to 300 barg.

Ambient Temperature Range

-40°C to +90°C.

Optional: High (+200°C) and low (-50°C) temperature versions available on request where special seals are fitted.

Operating Media

Pneumatic Actuators: Air (dry or lubricated) or non-corrosive gas operating media.

Hydraulic Actuators: Mineral oil or equal operating fluid.

Ingress Protection

Weatherproof to IP65 / 66.

Features and Benefits

• Spring return option

Spring return option for fail safe (open or close) using springs, pre-compressed and securely contained in a sealed spring cartridge, ensuring positive fail action.

• Adjustable stroke lengths

Externally adjustable travel stops are sized to withstand the full output thrust of the actuator and do not interfere with the pressurised power cylinder.

• Valve mounting bracket

One piece open adaptor allows for access to travel stops, limit switch adjustment, valve packing adjustment and actuator removal.

• Manual Override

Optional manual overrides including single acting mechanism to extend the piston rod, dual acting mechanism to extend and retract the piston rod or hydraulic pump fitted in accordance with customer's requirements.

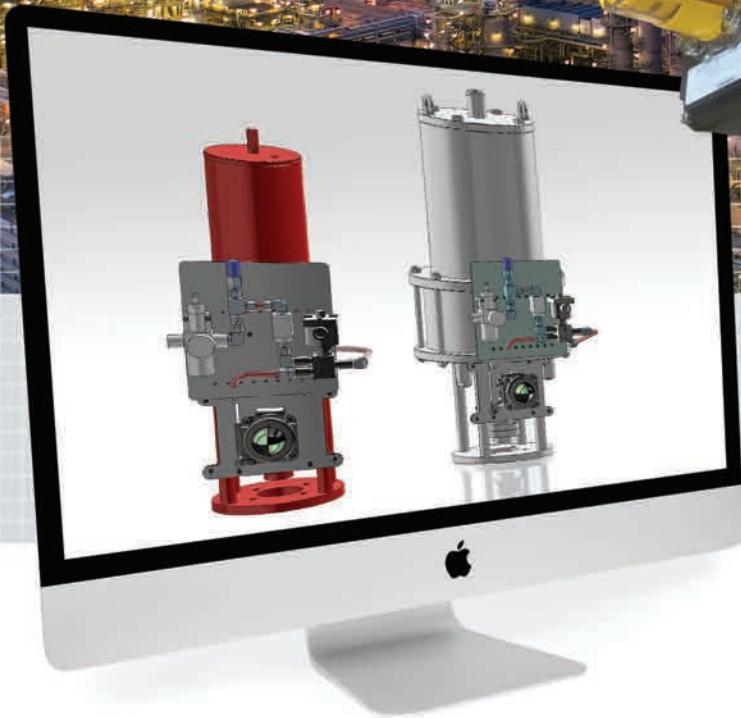
• Wide range of accessory options

A complete range of control accessories including positioners, position monitors and solenoids are available. Factory design and assembly of control systems ensures full requirements are satisfied.

• Special applications

Actuators can be designed to suit special customer applications including critical modulating service with reduced friction and hysteresis and fire protection solutions (such as special coating, flexible jackets and removable covers).

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Control Systems

The control systems for actuators are of fundamental importance for providing actuator performance, functionality and reliability. Our engineers have considerable experience in this field and can supply bespoke control systems for valve actuation to satisfy all of the end client's operational requirements. These include:

BDV (Blow Down Valve) systems

ESD (Emergency Shut Down) systems

PST (Partial Stroke Test) systems

Modulating systems

Solenoid Control - 3/2-Way Single Coil, 5/2-Way Single or Dual Coil versions in both General Purpose and Hazardous Area Options (ATEX Certified Ex ia, Ex d & Ex m).

Position Feedback Monitors - Mechanical or Proximity End of Travel Switch / Sensor, 4 to 20 mA Feedback or Bus Communication versions in both General Purpose and Hazardous Area Options (ATEX Certified Ex ia & Ex d).

Positioner Control - Pneumatic, Electro-Pneumatic or Digital versions in both General Purpose and Hazardous Area Options (ATEX Ex ia & Ex d).

Miscellaneous Controls - Speed Control, Pilot Valves, Quick Exhaust Systems, Partial Closing Test Systems, Pressure Relief Valves and Others.

Automation Centre

Our engineers work with the latest SolidWorks 3D CAD system, producing accurate detailed and 'As Built' general arrangement drawings. For those customers requiring technical drawings, certain drawings are available in a SolidWorks .easm format that enables full 3-D viewing of our products using Free Downloadable Software.

Refurbishment Services

Actuators that are in need of repairs or overhaul can be sent to Camtorc, where trained engineers carry out all necessary work. This important service from Camtorc enables our customers to maximise the working life of product purchased.

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